



View 16 images at one time

ESS-3 lets you "pop" 16 reduced size images up on your screen as a mosaic almost instantly. These 16 images can be from a play list, 16 images selected at random by the operator, or you can quickly review your entire on-line catalog 16 images at a time. Each small image carries its own pack and identification number, so the full-sized version may be easily recalled when desired.

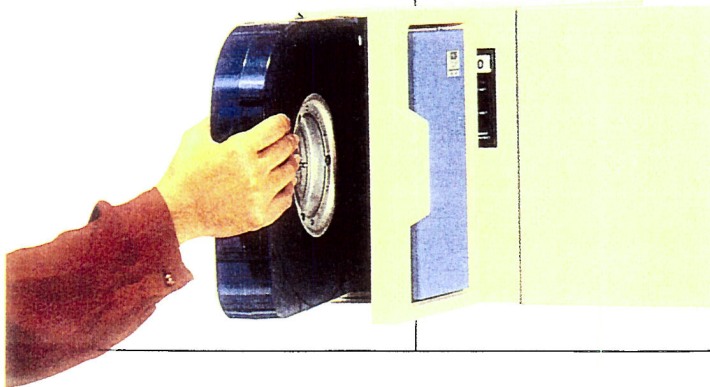
Fast still image recall

With ESS-3, still images can be called onto the screen in less than one second. The access station permits recall of any still on the disk drive. Recorded stills are identified by date, pack and identification number, category and title. Play lists can be compiled and played step-by-step. An on-line catalog system lets the operator know which stills are available for on-line use. All on-line images can

be searched for by date, category, title or key words.

The catalog functions are performed using the composition access station, with the alphanumeric keyboard providing the necessary information input for the various search functions. The cursor keys allow fast, convenient isolation of any still without time consuming numeric entry. The various lists and catalog search results can be displayed either in a text mode where the printed information is presented, or in the video mode to see the corresponding still pictures in the reduced size, multiple picture mode. The combination of the multi-picture display and the cursor keypad configuration will allow lists to be assembled, reviewed and edited with a minimum number of keystrokes.

**CDC 9710
Removable
Storage Drive
Allows Data Pack
Removal for
"Off Line" or
Archival Storage**



Disk storage

The basic ESS-3 system stores up to 400 such stills on a single disk drive. In the expanded system using 16 drives, the system holds up to 6400 on-line still images.

Ampex recommends its 330-megabyte "Capricorn" Winchester-type drive, and the 80-megabyte CDC-9710 removable pack version. The ESS-3 controls up to 16 drives. All drives are rack-mountable.



**Ampex
"Capricorn"
Winchester-Type
Drive for
maximum still storage**

Future expansion

The ESS-3 is also designed to expand beyond the five output channels by interconnecting up to four additional system chassis via a 20 megabit per second digital network. This will allow a system to include up to 25 output channels and up to 80 disk drives. Please contact your Ampex sales representative for additional details on this expanded capability.

Specifications**Power**

All units operate on 50/60 Hz AC, 90-130V or 180-260V

Electronics Chassis	1.7 Kw max.
Central Chassis	250W max.
Composition Access Station	8W max.
Remote Access Station	20W max.

Video

Available in 525/60 NTSC or 625/25 PAL versions

Input: Composite Video 1V p-p ± 3 dB @ 75 ohm

Reference: Color black or composite video loop thru

Outputs: 2 identical composite video outputs for each channel, one volt p-p ± 3 dB composite video @ 75 ohms impedance, RGB outputs for each channel, .7V p-p @ 75 ohms impedance.

Sync Output: 4V p-p @ 75 ohm impedance

Signal Performance**Bandwidth:**

Luminance $\pm .5$ dB to 5 MHz, -1 dB @ 5.3 MHz
 Chroma $\pm .5$ dB to 1.4 MHz, -1 dB @ 1.7 MHz

Differential Phase: 1.0°

Differential Gain: 1.5%

Storage

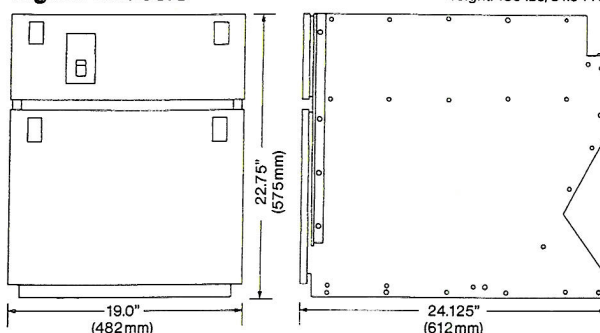
0.8 megabyte NTSC, .96 megabyte PAL required for each still frame (2 fields)

Access Time

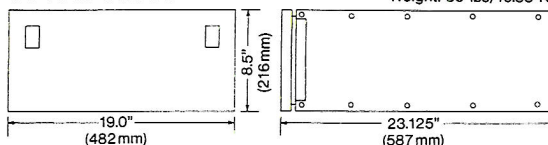
0.8 seconds for any full size still

Signal Chassis

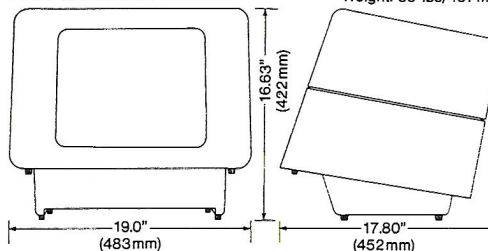
Weight: 180 lbs/81.54 KG

**Control Chassis**

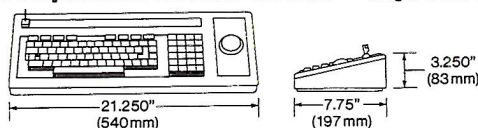
Weight: 36 lbs/16.33 KG

**Menu Monitor**

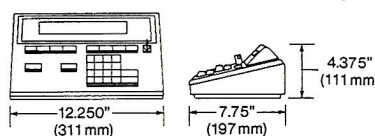
Weight: 35 lbs/457 mm

**Composition Access Station**

Weight: 10 lbs/4.53 KG

**Remote Access Station**

Weight: 8 lbs/3.62 KG

**AMPEX**

Ampex Corporation, Audio-Video Systems Division

FOR INFORMATION ON AMPEX BROADCAST VIDEO PRODUCTS CONTACT THE VIDEO SALES MANAGER NEAREST YOU.

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